

CLAIMS

1. An aqueous dispersion of polyamide resin, comprising:
dispersed polyamide resin particles, basic material
5 and water; and
wherein the weight average diameter of said dispersed
polyamide resin particles is 0.1-10 μm ,
the ratio of end carboxyl groups to end amino groups
in said polyamide resin is between 60/40 and 100/0, and
10 the amount of said basic material added is 0.2-3.0 mol
per mol of said end carboxyl groups.
2. The aqueous dispersion of polyamide resin according to
Claim 1, wherein said basic material is an alkali metal
15 hydroxide or amino compound.
3. The aqueous dispersion of polyamide resin according to
Claim 2, wherein said alkali metal hydroxide is sodium
hydroxide or potassium hydroxide.
- 20 4. The aqueous dispersion of polyamide resin according to
Claim 1, wherein the amount of said end carboxyl groups is
50-3000 mmol per kg of said polyamide resin.
- 25 5. The aqueous dispersion of polyamide resin according to
Claim 1, wherein said polyamide resin has as a structural
unit at least one selected from the group consisting of

-[NH(CH₂)₅CO]-, -[NH(CH₂)₆NHCO(CH₂)₄CO]-, -
NH(CH₂)₆NHCO(CH₂)₈CO]-, -[NH(CH₂)₁₀CO]- and -[NH(CH₂)₁₁CO].

6. The aqueous dispersion of polyamide resin according to
5 Claim 1, wherein the proportion of said water is 30-1500
parts by weight based on 100 parts by weight of polyamide
resin.

7. A method of manufacturing an aqueous dispersion of
10 polyamide resin, wherein polyamide resin is added to an
aqueous dispersion medium containing 0.2-3.0 mol of basic
material per mol of end carboxyl groups in said polyamide
resin.

8. The method of manufacturing an aqueous dispersion of
15 polyamide resin according to Claim 7, wherein the ratio of
end carboxyl groups to end amino groups in said polyamide
resin is between 60/40 and 100/0.

9. The method of manufacturing an aqueous dispersion of
20 polyamide resin according to Claim 7, wherein the amount
of said end carboxyl groups is 50-3000 mmol per kg of said
polyamide resin.

10. The method of manufacturing an aqueous dispersion of
25 polyamide resin according to Claim 7, wherein said polyamide
resin has as a structural unit at least one selected from
the group consisting of -[NH(CH₂)₅CO]-, -

[NH(CH₂)₆NHCO(CH₂)₄CO]-, . . . -[NH(CH₂)₆NHCO(CH₂)₈CO]-, -
[NH(CH₂)₁₀CO]- and -[NH(CH₂)₁₁CO].

11. The method of manufacturing an aqueous dispersion of
5 polyamide resin according to Claims 7, wherein said basic
material is an alkali metal hydroxide or amino compound.

12. The method of manufacturing an aqueous dispersion of
polyamide resin according to Claim 11, wherein said alkali
10 metal hydroxide is sodium hydroxide or potassium hydroxide.

13. The method of manufacturing an aqueous dispersion of
polyamide resin according to Claims 7, wherein said aqueous
dispersion medium contains 30-1500 parts by weight of water
15 based on 100 parts by weight of said polyamide resin.

14. The method of manufacturing an aqueous dispersion of
polyamide resin according to Claim 7, wherein said polyamide
resin is dispersed in said aqueous dispersion medium in a
20 state where the polyamide resin is heated to a temperature
at or above the softening temperature of the resin.

15. The method of manufacturing an aqueous dispersion of
polyamide resin according to Claim 14, wherein said
25 polyamide resin is heated at a temperature of 70°C-300°C.

16. The method of manufacturing an aqueous dispersion of
polyamide resin according to Claim 15, wherein said

polyamide resin is dispersed in said aqueous dispersion medium with shear force applied to the aqueous dispersion medium to which the polyamide resin has been added.

- 5 17. The method of manufacturing an aqueous dispersion of polyamide resin according to Claim 16, wherein shear force is applied to said aqueous dispersion medium by rotation of a mixing blade.
- 10 18. The method of manufacturing an aqueous dispersion of polyamide resin according to Claims 17, wherein the rotational speed of said mixing blade is 100-500 rpm.